

- determine that the resource usage is within a predefined range of a predefined resource-consumption limit; generate an event notification based on determining that the resource usage is within the predefined range of the predefined resource-consumption limit; and transmit the event notification to the software application for causing the software application to receive the event notification and responsively perform a mitigation operation, the mitigation operation being configured to prevent the resource usage from exceeding the predefined resource-consumption limit or mitigate an impact of the resource usage exceeding the predefined resource-consumption limit.
2. The system of claim 1, wherein the resource usage includes memory usage, disk usage, network usage, or processing-unit usage.
 3. The system of claim 1, wherein the event notification is configured to indicate a high resource-consumption event in which the resource usage for the software application is within the predefined range of the predefined resource-consumption limit or has surpassed the predefined resource-consumption limit.
 4. The system of claim 1, wherein the software application is a stateless application and the distributed computing environment is a cloud computing environment.
 5. The system of claim 1, wherein the software application is configured to determine the mitigation operation in response to the event notification by accessing a lookup table that specifies correlations between event notifications and mitigation operations.
 6. The system of claim 1, wherein the distributed computing environment is configured to automatically stop or shutdown the software application in response to the resource usage exceeding the predefined resource-consumption limit.
 7. The system of claim 1, wherein the mitigation operation involves storing intermediate results of a data-processing operation implemented by the software application.
 8. A method comprising:
 - determining, by a processor, resource usage by a software application in a distributed computing environment;
 - determining, by the processor, that the resource usage is within a predefined range of a predefined resource-consumption limit;
 - generating, by the processor, an event notification based on determining that the resource usage is within the predefined range of the predefined resource-consumption limit; and
 - transmitting, by the processor, the event notification to the software application for causing the software application to receive the event notification and responsively perform a mitigation operation, the mitigation operation being configured to prevent the resource usage from exceeding the predefined resource-consumption limit or mitigate an impact of the resource usage exceeding the predefined resource-consumption limit.
 9. The method of claim 8, wherein the resource usage includes memory usage, disk usage, network usage, or processing-unit usage.
 10. The method of claim 8, wherein the event notification is configured to indicate a high resource-consumption event in which the resource usage for the software application is

within the predefined range of the predefined resource-consumption limit or has surpassed the predefined resource-consumption limit.

11. The method of claim 8, wherein the software application is a stateless application and the distributed computing environment is a cloud computing environment.

12. The method of claim 8, wherein the software application is configured to determine the mitigation operation in response to the event notification by accessing a lookup table that specifies correlations between event notifications and mitigation operations.

13. The method of claim 8, wherein the distributed computing environment is configured to automatically stop or shutdown the software application in response to the resource usage exceeding the predefined resource-consumption limit.

14. The method of claim 8, wherein the mitigation operation involves storing intermediate results of a data-processing operation implemented by the software application.

15. A non-transitory computer-readable medium comprising program code that is executable by a processor for causing the processor to:

- determine resource usage by a software application in a distributed computing environment;

- determine that the resource usage is within a predefined range of a predefined resource-consumption limit;

- generate an event notification based on determining that the resource usage is within the predefined range of the predefined resource-consumption limit; and

- transmit the event notification to the software application for causing the software application to receive the event notification and responsively perform a mitigation operation, the mitigation operation being configured to prevent the resource usage from exceeding the predefined resource-consumption limit or mitigate an impact of the resource usage exceeding the predefined resource-consumption limit.

16. The non-transitory computer-readable medium of claim 15, wherein the resource usage includes memory usage, disk usage, network usage, or processing-unit usage.

17. The non-transitory computer-readable medium of claim 15, wherein the event notification is configured to indicate a high resource-consumption event in which the resource usage for the software application is within the predefined range of the predefined resource-consumption limit or has surpassed the predefined resource-consumption limit.

18. The non-transitory computer-readable medium of claim 15, wherein the software application is a stateless application and the distributed computing environment is a cloud computing environment.

19. The non-transitory computer-readable medium of claim 15, wherein the software application is configured to determine the mitigation operation in response to the event notification by accessing a lookup table that specifies correlations between event notifications and mitigation operations.

20. The non-transitory computer-readable medium of claim 15, wherein the distributed computing environment is configured to automatically stop or shutdown the software application in response to the resource usage exceeding the predefined resource-consumption limit.

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